

Attorney Docket No. 9159-4

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Starobin et al.

Application Serial No.: 10/625,133

Filed: July 23, 2003

For: ***Method and System for Evaluating Cardiac Ischemia Based on Heart Rate Fluctuations***

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

Date: December 11, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

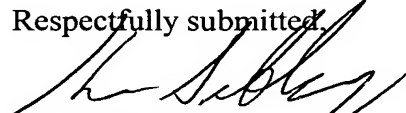
**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Sir:

Attached is a list of documents on Form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003.

It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP. No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

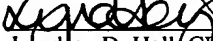
Respectfully submitted,

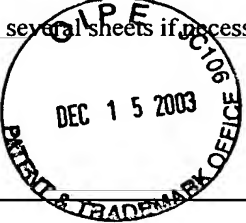
  
Kenneth D. Sibley  
Registration No. 31,665

Myers Bigel Sibley & Sajovec, P.A.  
P. O. Box 37428  
Raleigh, North Carolina 27627  
Telephone: (919) 854-1400  
Facsimile: (919) 854-1401  
Customer No. 20792

**Certificate of Mailing under 37 CFR 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 11, 2003.

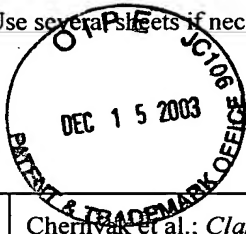
  
Lindsey D. Hall, CP  
Certified Paralegal

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number 9159-4		Serial No. 10/625,133	
<b>LIST OF DOCUMENTS CITED BY APPLICANT</b> (Use several sheets if necessary)							
				Applicants: Starobin et al.			
				Filing Date July 23, 2003			Group
<b>U. S. PATENT DOCUMENTS</b>							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	4,870,974	10/03/89	Wang	128	700	
	2	5,020,540	06/04/91	Chamoun	128	703	
	3	5,117,834	06/02/92	Kroll et al.	128	705	
	4	5,148,812	9/22/92	Verrier et al.	128	704	
	5	5,323,783	06/28/94	Henkin et al.	128	703	
	6	5,419,338	05/30/95	Sarma et al.	128	703	
	7	5,560,370	10/01/96	Verrier et al.	128	705	
	8	5,713,367	02/03/98	Arnold et al.	128	700	
	9	5,792,065	08/11/98	Xue et al.	600	516	
	10	5,794,623	08/18/98	Forbes	128	702	
	11	5,827,195	10/27/98	Lander	600	509	
	12	5,842,997	12/01/98	Verrier et al.	600	516	
	13	5,891,047	04/06/99	Lander et al.	600	516	
	14	5,921,940	07/13/99	Verrier et al.	600	518	
	15	5,951,484	09/14/99	Hoiium et al.	600	515	
	16	6,361,503	03/26/02	Starobin et al.	600	509	
	17	2002/0038091	03/26/02	Starobin et a.	600	509	
	18	2002/0042578	04/11/02	Starobin et al.	600	508	
	19	2003/0130586	07/10/03	Starobin et al.	600	515	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Subclass	Translation Yes   No
	20	WO 03/057033	07/17/03	PCT	A61B	5/0452	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	21	Arnold et al.; <i>The dependence on heart rate of the human ventricular action potential duration</i> , Cardiovascular Research, 16, 547-551 (1982).					

 EXAMINER  
 \*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office  <b>LIST OF DOCUMENTS CITED BY APPLICANT</b>  (Use several sheets if necessary)		Attorney Docket Number 9159-4	Serial No. 10/625,133
		Applicants: Starobin et al.	
		Filing Date July 23, 2003	Group
22	Chernyak et al.; <i>Class of Exactly Solvable Models of Excitable Media</i> , <u>Phys. Rev. Lett.</u> , <b>80:25</b> , 5675-5678 (1998)		
23	Chernyak et al.; <i>Where do dispersion curves end? A basic question in theory of excitable media</i> , <u>Phys. Rev. E.</u> , <b>58:4</b> , 4108-4111 (1998)		
24	Ciavolella et al.; <i>Exponential Fit of QT Interval-Heart Rate Relation During Exercise Used to Diagnose Stress-induced Myocardial Ischemia</i> , <u>Journal of Electrocardiology</u> , <b>24:2</b> , 145-153 (1991).		
25	Cole et al.; <i>Heart-Rate Recovery Immediately After Exercise As A Predictor Of Mortality</i> , <u>The New England Journal of Medicine</u> , <b>341:18</b> , 1351-1357 (October 1999).		
26	Franz et al.; <i>Cycle Length Dependence of Human Action Potential Duration In Vivo; Effects of Single Extrastimuli, Sudden Sustained Rate Acceleration and Deceleration, and Different Steady-State Frequencies</i> , <u>I. Clin. Invest.</u> , <b>82</b> , 972-979 (1988).		
27	Froelicher, Jr. et al.; <i>A comparison of three maximal treadmill exercise protocols</i> , <u>Journal of Applied Physiology</u> , <b>36:6</b> , 720-725 (1974).		
28	Hintze et al.; <i>Prognostic Properties of QT/RR Dynamics in Survivors of Myocardial Infarction with Reduced Systolic Function</i> , <u>NASPE Annual Meeting</u> , Washington, D.C. (May 17-20, 2000).		
29	Jonalegedda et al.; <i>An Exponential Formula for Heart Rate Dependence of QT Interval During Exercise and Cardiac Pacing in Humans: Reevaluation of Bazett's Formula</i> , <u>Am J Cardiol</u> , <b>54</b> , 103-108 (1984).		
30	Jonalegedda et al.; <i>Hysteresis in the Human RR-QT Relationship During Exercise and Recovery</i> , <u>PACE</u> , <b>10</b> , 485-491 (1997).		
31	Krahn, M.D. et al.; <i>Hysteresis of the RT Interval With Exercise; A New Marker for the Long-QT Syndrome?</i> , <u>Circulation</u> , <b>96</b> , 1551-1556 (1997).		
32	Lau et al.; <i>Hysteresis of the ventricular paced QT interval in response to abrupt changes in pacing rate</i> , <u>Cardiovascular Research</u> , <b>22</b> , 67-72 (1988).		
34	Starobin et al.; <i>The role of a critical excitation length scale in dynamics of reentrant cardiac arrhythmias</i> , <u>Herzsch Elektrophys</u> , <b>10</b> , 119-136 (Month Unknown, 1999).		
34	Surawicz; <i>Will QT Dispersion Play a Role in Clinical Decision-Making?</i> , <u>I Cardiovascular Electrophysiol</u> , <b>7</b> , 777-784 (1996).		
36	Swan et al.; <i>Rate adaption of QT intervals during and after exercise in children with congenital long QT syndrome</i> , <u>European Heart Journal</u> , <b>19</b> , 508-513 (1998).		
36	Takahashi et al.; <i>Paradoxically Shortened QT Interval after a Prolonged Pause</i> , <u>PACE</u> , <b>21</b> , 1476-1479 (1998).		
37	Pierpoint et al.; <i>Heart rate recovery post-exercise as an index of parasympathetic activity</i> , <u>Journal of the Autonomic Nervous System</u> , <b>80</b> , 169-174 (May 12, 2000)		
38	International Search Report, International Application No. PCT/US01/20391 dated August 20, 2001		

 EXAMINER  
 \*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.